

- (1) The blood sugar concentration and pancreatic secretion in the rabbit: This work is an effort to study the recent experiments of La Barre and Destree on hypoglycaemia. This work has been confirmed and a new fact established. It was demonstrated that insulin hypoglycaemia caused a diminished output of enzymes, but this was not observed if the vagi were cut, thus indicating the presence of "negative trophic" fibres in the vagus.
- (2) Influence of the splanchnic nerves on the gastric secretion: Long continued rhythmic stimulation of the splanchnic nerves (vagi being cut) produced a steady flow of alkaline mucoid secretion, which was demonstrated to be of the nature of a true secretion.

Experiments are also being carried out on animals with chronic fistulae of the stomach, in which the splanchnic nerves have been severed and the coeliac ganglion extirpated.

The trophic action of the sympathetic nervous system on the pancreatic gland in the rabbit is also being analyzed.

A great deal of valuable assistance has been derived from the Department of Histology, wherever material for microscopic examination is required. The many sections are prepared and studied by the workers themselves in co-operation with the Professor of Histology and his staff.

In the same manner the Department of Biochemistry has lent aid - under Professor Collip's guidance, and with the assistance of Dr. Harwood, who devoted much of his time especially in the studies of gall bladder conditions.

Neurology:

Drs. Penfield and Cone and their staff have been doing a great deal of experimental work. Some of it in the laboratories of the Royal Victoria Hospital and some in the laboratories of Experimental Surgery at the University.

Of the work that has been done, more especially under